

WHAT IS CLAIMED IS:

1. A water flow circulation device, comprising:

a main body having an inside formed with a first chamber and a second chamber, and having a periphery formed with an inlet channel 5 communicating with the first chamber and the second chamber and formed with a piston chamber communicating with the second chamber;

a cover mounted on a first end of the main body and having an inside formed with a first passage communicating with the first chamber of the main body and a second passage communicating with the second chamber of the 10 main body, the cover having a periphery formed with a circulation channel communicating with the first passage and the second passage;

a piston movably mounted in the piston chamber of the main body;

and

a pressure release valve mounted in the circulation channel of the 15 cover to form a circulation effect between the cover and the main body so as to release a hydraulic pressure in the cover.

2. The water flow circulation device in accordance with claim 1, wherein the circulation channel of the cover is formed with a stepped catch portion located between the first passage and the second passage, and the 20 pressure release valve includes an anti-reverse member movably mounted on the catch portion of the circulation channel.

3. The water flow circulation device in accordance with claim 2,
wherein the pressure release valve further includes a stop inserted into the
circulation channel of the cover, and an elastic member mounted in the
circulation channel of the cover and urged between the stop and the
5 anti-reverse member to detachably retain the anti-reverse member on the catch
portion of the circulation channel.

4. The water flow circulation device in accordance with claim 2,
wherein the anti-reverse member is movable between a first position where the
anti-reverse member is rested on the catch portion of the circulation channel to
10 interrupt connection between the first passage and the second passage, and a
second position where the anti-reverse member is detached from the catch
portion of the circulation channel to connect the first passage to the second
passage through the circulation channel.

5. The water flow circulation device in accordance with claim 1,
15 further comprising a plug mounted on a second end of the main body and
having an inside formed with a flow channel communicating with the second
chamber and the inlet channel of the main body.

6. The water flow circulation device in accordance with claim 5
wherein the flow channel of the plug is substantially L-shaped.

20 7. The water flow circulation device in accordance with claim 5,
further comprising an inlet valve mounted between the flow channel of the
plug and the second chamber of the main body.

8. The water flow circulation device in accordance with claim 1, further comprising an outlet valve mounted between the second chamber of the main body and the second passage of the cover.

9. The water flow circulation device in accordance with claim 1, 5 wherein the piston is mounted on a piston lever.

10. The water flow circulation device in accordance with claim 1, wherein the piston chamber of the main body is vertical to the second chamber.

11. The water flow circulation device in accordance with claim 1, wherein the piston is moved into the piston chamber of the main body to 10 produce a thrust effect.

12. The water flow circulation device in accordance with claim 11, further comprising an inlet valve and an outlet valve each mounted in the second chamber of the main body, wherein when the piston is moved outward from the piston chamber of the main body to produce an attractive effect, the 15 inlet valve is opened and the outlet valve is closed.

13. The water flow circulation device in accordance with claim 1, wherein the piston is moved outward from the piston chamber of the main body to produce an attractive effect.

14. The water flow circulation device in accordance with claim 13, 20 further comprising an inlet valve and an outlet valve each mounted in the second chamber of the main body, wherein when the piston is moved into the

piston chamber of the main body to produce a thrust effect, the inlet valve is closed and the outlet valve is opened.